

Work Order ID 56720

March 5, 2010 9:59:52 AM



Page 1

Item ID: D412-742-011

Accept



Setup Start



Revision ID:

Item Name: Float Skidtube Installation

Stop



Start Date: 05/03/2010 Start Qty: 1.00



Cust Item ID:

Required Date: 17/03/2010 Req'd Qty: 1.00



Customer:

Reference:

Approvals:

Process Plan:

PL

Date: 10-3-5 Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Draw
Number

Draw
Rev.

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

IIN-D412-742

D

100

0.00



DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy bluefile and create labels per PPP D412-742-011 CHG006

5 10/03/12

110

0.00



Pick Kit

Packaging

Memo

0.00

Packaging

12/3/10 (1)

120

0.00



QC4- 100% Inspect kits for completeness

QC

Memo

0.00

Quality Control

8 10/03/12

(4)

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 56720

March 5, 2010 9:59:52 AM



Page 2

Item ID: D412-742-011

Accept



Setup Start



Revision ID:

Item Name: Float Skidtube Installation

Stop



Start Date: 05/03/2010 Start Qty: 1.00



Cust Item ID:

Required Date: 17/03/2010 Req'd Qty: 1.00



Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Draw
Number

Draw
Rev.

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

130



Packaging

Packaging

0.00

Memo

0.00

Packaging

Identify and pack for shipping as per PPPD412-742-011
Location: 73

Reo f

10-3-12

sf

140



QC

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

CMF

10-3-12

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

March 5, 2010 9:59:49 AM

Page 45

Work Order ID: 56720

Parent Item: D412-742-011

Parent Item Name: Float Skidtube Installation

Comments: IPP Rev: A 05.10.13 New Issue KJ/JLM
IPP Rev: B 06-06-08 As per DSI9336 JLM
IPP Rev: C 07-05-28 As per Rev C JLM
IPP rev D 07.11.01 ecn 1053P EC

Start Date: 05/03/2010

Required Date: 17/03/2010

Start Qty: 1.00

Required Qty: 1.00

MS21043-3

Purchased No

100 Each

4,196.000 33.0000



Nut

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
OFFSHORE		
FG	80	
103691	80	
Main Warehouse		
ST	4116	
111819	70	
112243	29	
112314	4017	

MS3C37A

Purchased No

110 Each

84.0000 3.0000



BOLT

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
Main Warehouse		
ST	84	
112454	84	

March 5, 2010 9:59:49 AM

Shop Packet Print

Page 45

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

March 5, 2010 9:59:49 AM

Page 46

Work Order ID: 56720

Parent Item: D412-742-011

Parent Item Name: Float Skidtube Installation


Comments: IPP Rev: A 05.10.13 New Issue KJ/JLM
 IPP Rev: B 06-06-08 As per DSI9336 JLM
 IPP Rev: C 07-05-28 As per Rev C JLM
 IPP rev D 07.11.01 ecn 1053P EC

Start Date: 05/03/2010

Required Date: 17/03/2010

Start Qty: 1.00

Required Qty: 1.00

AN3C40A

 BOLT

Purchased No 110 Each 84.0000 2.0000

Warehouse
Location

Main Warehouse

ST 84

106176 34

112454 50

Purchased No 110 Each 138.0000 3.0000

AN3C41A

 BOLT

Warehouse
Location

OFFSHORE

FG 4

103324 4

Main Warehouse

ST 134

112431 34

112829 100

M106176

M112431

14/3/10

March 5, 2010 9:59:49 AM

Shop Packet Print

Page 46

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

March 5, 2010 9:59:49 AM

Page 47

Work Order ID: 56720

Parent Item: D412-742-011

Parent Item Name: Float Skidtube Installation

Comments: IPP Rev: A 05.10.13 New Issue KJ/JLM
 IPP Rev: B 06-06-08 As per DSI9336 JLM
 IPP Rev: C 07-05-28 As per Rev C JLM
 IPP rev D 07.11.01 ecn 1053P EC

Start Date: 05/03/2010

Required Date: 17/03/2010

Start Qty: 1.00

Required Qty: 1.00

AN3C42A



BOLT

Purchased No

110 Each

132.0000 3.0000



Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

132

106169

32

106176

100

Purchased No

110 Each

45.0000 3.0000



1106169

AN3C43A



BOLT

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

45

106227

2

106228

35

107457

8

Purchased No

110 Each

173.0000 9.0000



1107457

AN3C44A



BOLT

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

173

106187

73

110848

100

106187

March 5, 2010 9:59:49 AM

Shop Packet Print

Page 47

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

March 5, 2010 9:59:49 AM

Page 48

Work Order ID: 56720

Parent Item: D412-742-011

Parent Item Name: Float Skidtube Installation

Comments: IPP Rev: A 05.10.13 New Issue [KJ/JLM]
 IPP Rev: B 06-06-08 As per DS19336 JLM
 IPP Rev: C 07-05-28 As per Rev C JLM
 IPP rev D 07.11.01 ecn 1053P EC

Start Date: 05/03/2010

Required Date: 17/03/2010

Start Qty: 1.00

Required Qty: 1.00

AN3C47A

Purchased No

110 Each

111.0000

10.0000



BOLT

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

111

106171

62

110847

49

Purchased

No

110

Each

110.0000

4.0000



Bolt

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

110

112489

2

112816

3

113164

5

113302

100

106171

1113302

March 5, 2010 9:59:49 AM

Shop Packet Print

Page 48

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

March 5, 2010 9:59:49 AM

Page 49

Work Order ID: 56720

Parent Item: D412-742-011

Parent Item Name: Float Skidtube Installation

Comments: IPP Rev: A 05.10.13 New Issue KJ/JLM
IPP Rev: B 06-06-08 As per DSI9336 JLM
IPP Rev: C 07-05-28 As per Rev C JLM
IPP rev D 07.11.01 ecn 1053P EC

Start Date: 05/03/2010

Required Date: 17/03/2010

Start Qty: 1.00

Required Qty: 1.00

AN4CS2A

Purchased No

110 Each

184.0000 8.0000



BOLT

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

184

103914

19

112543

15

112641

50

113121

100

M112543

AN4C6A

Purchased No

110 Each

611.0000 16.0000



Bolt

Warehouse

Loc Qty

Loc Code

Location

OFFSHORE

FG

4

103344

4

Main Warehouse

ST

607

111295

0

112759

25

112794

82

113121

500

M112794

March 5, 2010 9:59:49 AM

Shop Packet Print

Page 49

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

March 5, 2010 9:59:49 AM

Page 50

Work Order ID: 56720



Parent Item: D412-742-011



Parent Item Name: Float Skidtube Installation

Start Date: 05/03/2010

Required Date: 17/03/2010

Comments: IPP Rev: A 05.10.13 New Issue KJ/JLM
IPP Rev: B 06-06-08 As per DSI9336 JLM
IPP Rev: C 07-05-28 As per Rev C JLM
IPP rev D 07.11.01 ecn 1053P EC

Start Qty: 1.00

Required Qty: 1.00



Bolt

Purchased No

110 Each

431.0000 4.0000



Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

431

109147

431



BOLT

Purchased No

110 Each

99.0000 8.0000



Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

99

104289

1

110396

98

109147

1110396

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

March 5, 2010 9:59:49 AM

Page 51

Work Order ID: 56720

Parent Item: D412-742-011

Parent Item Name: Float Skidtube Installation

Comments: IPP Rev: A 05.10.13 New Issue KJ/JLM
 IPP Rev: B 06-06-08 As per DSI9336 JLM
 IPP Rev: C 07-05-28 As per Rev C JLM
 IPP rev D 07.11.01 ecn 1053P EC

Start Date: 05/03/2010

Required Date: 17/03/2010

Start Qty: 1.00

Required Qty: 1.00

AN960C10L

Purchased No

110 Each

388.0000 66.0000



washer

NDS1149C0332P

Warehouse	Loc Qty	Loc Code
Location		
OFFSHORE		

FG	100	
----	-----	--

103585	100	
--------	-----	--

Main Warehouse

ST	288	
----	-----	--

112116	128	
--------	-----	--

112612	160	
--------	-----	--

AN960C416L

Purchased No

110 Each

1,314.0000 32.0000



WASHER

Warehouse	Loc Qty	Loc Code
Location		
OFFSHORE		

FG	44	
----	----	--

104925	44	
--------	----	--

Main Warehouse

ST	1270	
----	------	--

111916	2	
--------	---	--

112612	368	
--------	-----	--

112794	500	
--------	-----	--

112828	400	
--------	-----	--

m112612

March 5, 2010 9:59:49 AM

Shop Packet Print

Page 51

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

March 5, 2010 9:59:49 AM

Work Order ID: 56720

Parent Item: D412-742-011

Parent Item Name: Float Skidtube Installation

Comments: IPP Rev: A 05.10.13 New Issue KJ/JLM
 IPP Rev: B 06-06-08 As per DSI9336 JLM
 IPP Rev: C 07-05-28 As per Rev C JLM
 IPP rev D 07.11.01 ecn 1053P EC

Start Date: 05/03/2010

Required Date: 17/03/2010

Start Qty: 1.00

Required Qty: 1.00

AN960C616L

Purchased No

110 Each

250.0000 8.0000



WASHER

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

250

111424

50

113064

200

Manufactured No

110 Each

22.0000 1.0000



Saddle, Fwd Out 205

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

14

11644

1

43564

3

47564

7

52910

3

Main Warehouse

ST433

8

54929

8

11/1424

16/3/10 ①

54929

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

March 5, 2010 9:59:49 AM

Page 53

Work Order ID: 56720



Parent Item: D412-742-011



Parent Item Name: Float Skidtube Installation

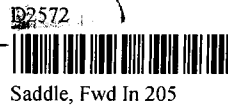
Start Date: 05/03/2010

Required Date: 17/03/2010

Comments: IPP Rev: A 05.10.13 New Issue KJ/JLM
IPP Rev: B 06-06-08 As per DS19336 JLM
IPP Rev: C 07-05-28 As per Rev C JLM
IPP rev D 07.11.01 ecn 1053P EC

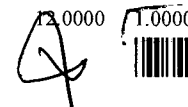
Start Qty: 1.00

Required Qty: 1.00



Manufactured No

110 Each



10-3-10
B56748 sl

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

12

43565

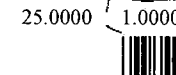
3

52908

9

Manufactured No

110 Each



14/3/10 (1)

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

11

43566

3

44206

1

47566

7

Main Warehouse

ST434

14

52328

6

52911

8

52911

March 5, 2010 9:59:49 AM

Shop Packet Print

Page 53

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

March 5, 2010 9:59:49 AM

Work Order ID: 56720

Parent Item: D412-742-011

Parent Item Name: Float Skidtube Installation

Comments: IPP Rev: A 05.10.13 New Issue KJ/JLM
IPP Rev: B 06-06-08 As per DSI9336 JLM
IPP Rev: C 07-05-28 As per Rev C JLM
IPP rev D 07.11.01 ecn 1053P EC

Start Date: 05/03/2010

Required Date: 17/03/2010

Start Qty: 1.00

Required Qty: 1.00

D2574
Saddle, Aft In 205

Manufactured No

110 Each

17.0000 1.0000

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

2

43567

2

Main Warehouse

ST434

15

53463

7

56398

8

Manufactured No

110 Each

229.0000 4.0000

D2747
Set Screw

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST023

229

39224

4

43855

25

51921

200

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			
/								

NOTE: Date & initial all entries

Picklist Print

March 5, 2010 9:59:49 AM

Page 55

Work Order ID: 56720



Parent Item: D412-742-011



Parent Item Name: Float Skidtube Installation

Start Date: 05/03/2010

Required Date: 17/03/2010

Comments: IPP Rev: A ☐ 05.10.13 ☐ New Issue ☐ KJ/JLM ☐
IPP Rev: B 06-06-08 As per DSI9336 JLM
IPP Rev: C 07-05-28 As per Rev C JLM
IPP rev D 07.11.01 ecn 1053P EC

Start Qty: 1.00

Required Qty: 1.00

D2876



Saddle Spacer

Manufactured No

110 Each

149.0000 2.0000



[Handwritten signature]

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST028

102

42364

102

Main Warehouse

ST051

47

51540

47

Manufactured No

110 Each

80.0000 2.0000



[Handwritten signature]

D2877



Saddle Spacer

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST028

80

46518

1

47292

42

51541

37

[Handwritten signature]

March 5, 2010 9:59:49 AM

Shop Packet Print

Page 55

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

March 5, 2010 9:59:49 AM

Page 56

Work Order ID: 56720



Parent Item: D412-742-011



Parent Item Name: Float Skidtube Installation

Start Date: 05/03/2010

Required Date: 17/03/2010

Comments: IPP Rev: A ☐ 05.10.13 ☐ New Issue ☐ KJ/JLM ☐
 IPP Rev: B 06-06-08 As per DSI9336 JLM
 IPP Rev: C 07-05-28 As per Rev C JLM
 IPP rev D 07.11.01 ecn 1053P EC

Start Qty: 1.00

Required Qty: 1.00

D3403-1



Bushing

Manufactured No

110 Each

45.0000

16.0000



[Handwritten signature]

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

18

54237

5

56387

13

Main Warehouse

ST55

27

56387

27

56387

D3403-3



Bushing

Manufactured No

110 Each

24.0000

8.0000



[Handwritten signature]

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

24

52900

24

52900

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

March 5, 2010 9:59:49 AM

Work Order ID: 56720



Parent Item: D412-742-011



Parent Item Name: Float Skidtube Installation

Start Date: 05/03/2010

Required Date: 17/03/2010

Comments: IPP Rev: A 05.10.13 New Issue KJ/JLM
 IPP Rev: B 06-06-08 As per DSI9336 JLM
 IPP Rev: C 07-05-28 As per Rev C JLM
 IPP rev D 07.11.01 ecn 1053P EC

Start Qty: 1.00

Required Qty: 1.00

B3405-041

Manufactured No

110 Each

17.0000

1.0000



Lug Assembly

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

17

53887

17

Manufactured No

110 Each

8.0000

1.0000

B3405-043



Lug Assembly

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

8

46589

1

46863

1

52324

1

53888

5

53887

53888

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

March 5, 2010 9:59:49 AM

Work Order ID: 56720

Parent Item: D412-742-011

Parent Item Name: Float Skidtube Installation

Comments: IPP Rev: A 105.10.13 New Issue KJ/JLM
 IPP Rev: B 06-06-08 As per DSI9336 JLM
 IPP Rev: C 07-05-28 As per Rev C JLM
 IPP rev D 07.11.01 ecn 1053P EC

Start Date: 05/03/2010

Required Date: 17/03/2010

Start Qty: 1.00

Required Qty: 1.00

D3407-041

Manufactured No

110 Each

12.0000

1.0000



Tow Ring

[Signature]

Warehouse Loc Qty Loc Code

Location

OFFSHORE

FG

3

35780

3

Main Warehouse

ST

3

48356

1

50755

2

Main Warehouse

ST464

6

55032

6

D3417-3

Manufactured No

110 Each

105.0000

2.0000



Washer

55032

[Signature] 4/3/10 ①

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST

105

42176

2

44349

22

51648

28

53182

53

44349

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

March 5, 2010 9:59:49 AM

Page 59

Work Order ID: 56720

Parent Item: D412-742-011

Parent Item Name: Float Skidtube Installation

Comments: IPP Rev: A ☐ 05.10.13 ☐ New Issue ☐ KJ/JLM ☐
 IPP Rev: B 06-06-08 As per DS19336 JLM
 IPP Rev: C 07-05-28 As per Rev C JLM
 IPP rev D 07.11.01 ecn 1053P EC

Start Date: 05/03/2010

Required Date: 17/03/2010

Start Qty: 1.00

Required Qty: 1.00

D3456-1



Washer

Manufactured No

110 Each

172.0000 6.0000



Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

172

51653

4

54692

168

Manufactured No

110 Each

168.0000 2.0000



54692

D3533-1



Set Screw

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

168

51602

168

Manufactured No

110 Each

39.0000 16.0000



51602

D3672-11



Phenolic Washer

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

39

35524

39

35524

March 5, 2010 9:59:49 AM

Shop Packet Print

Page 59

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

March 5, 2010 9:59:49 AM

Page 60

Work Order ID: 56720

Parent Item: D412-742-011

Parent Item Name: Float Skidtube Installation

Comments: IPP Rev: A 05.10.13 New Issue KJ/JLM
IPP Rev: B 06-06-08 As per DSI9336 JLM
IPP Rev: C 07-05-28 As per Rev C JLM
IPP rev D 07.11.01 ecn 1053P EC

Start Date: 05/03/2010

Required Date: 17/03/2010

Start Qty: 1.00

Required Qty: 1.00

D3672-3



Phenolic Washer

Manufactured No

110 Each

524.0000 52.0000



Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST117

24

51596

24

51596 23X

Main Warehouse

ST77

500

55560

500

55560 9X

D3672-9



Phenolic Washer

Manufactured No

110 Each

491.0000 8.0000



Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

491

35523

491

35523

D412-742-015



Electric Step

Manufactured No

110 Each

3.0000 1.0000



Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

FG

3

35939

3

35939

March 5, 2010 9:59:49 AM

Shop Packet Print

Page 60

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

March 5, 2010 9:59:49 AM

Work Order ID: 56720

Parent Item: D412-742-011

Parent Item Name: Float Skidtube Installation

Comments: IPP Rev: A 05.10.13 New Issue KJ/JLM
 IPP Rev: B 06-06-08 As per DS19336 JLM
 IPP Rev: C 07-05-28 As per Rev C JLM
 IPP rev D 07.11.01 ecn 1053P EC

Start Date: 05/03/2010

Required Date: 17/03/2010

Start Qty: 1.00

Required Qty: 1.00

D412-742-041

Manufactured No

110 Each

0.0000

150000

10-3-10 SL

B37500A

Replacement Float Skidtube

MS21043-4

Purchased No

110 Each

374.0000

29.0000

6/4/3/10 (1)

Nut

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
OFFSHORE		
FG	40	
104603	40	
Main Warehouse		
ST	334	
112314	100	
112492	11	
113064	223	

M113064

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 56720



March 5, 2010 9:59:52 AM

Item ID: D412-742-011

Accept



Setup Start



Revision ID:

Stop



Item Name: Float Skidtube Installation

Start Date: 05/03/2010 Start Qty: 1.00



Cust Item ID:

Required Date: 17/03/2010 Req'd Qty: 1.00



Customer:

Reference:

Run Start



Approvals: Process Plan:

Date: 10-3-5 Tooling:

Date:

QC:

Date: SPC (Y/N):

Date:

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	----------------	--------------	--------------	---------------	---------------	------------------	----------------

Draw Nbr

Revision Nbr

IIN-D412-742

D

100

0.00



DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy bluefile and create labels per PPP D412-742-011 CHG006

10-3-11

REFERENCE ONLY

110

Pick Kit

0.00



Packaging

Memo

0.00

Packaging

120

QC4- 100% Inspect kits for completeness

0.00



QC

Memo

0.00

Quality Control

5.0 PARTS LIST

5.1 D412-742-011 (PMA/OEM) Float Skidtube Installation Parts List

Item	Qty 011	Qty -041	Qty -015	Part Number	Description
	X			D412-742-011	FLOAT SKIDTUBE INSTALLATION
	1	X		D412-742-041	FLOAT SKIDTUBE
	1		X	D412-742-015	ELECTRIC STEP KIT
		1		D3391-041	412 FLOAT SKIDTUBE
1		*24		*AN3C4A	*BOLT
3		*12		*AN3C6A	*BOLT
4		*8		*AN3C7A	*BOLT
5		*44		*AN960C10L	*WASHER
6		*4		*MS27039C4-12	*SCREW
7A		*4		*D3672-3	*WASHER (REPLACES NAS1515H4L)
7B		*4		*AN960C416L	*WASHER
21A		*1		*D3564-1	*WEARSHOE (REPLACES D3460-1)
21B		*1		*D3566-1	*GASKET
22A		*1		*D3564-3	*WEARSHOE (REPLACES D3460-3)
22B		*1		*D3566-1	*GASKET
23A		*1		*D3564-5	*WEARSHOE (REPLACES D2577-5)
23B		*1		*D3566-5	*GASKET
10		*1		*D3391-011	*412 FORWARD TUBE
11		**1		**D3401-041	**TOW CAP
12A		**10		**AELS-1032-225	**INSERT (REPLACES NAS1330S3KB166)
12B		**2		**AELS-1032-130	**INSERT (REPLACES NAS1330S3KB166)
13		**10		**AN3C4A	**BOLT
14A		**4		**D3672-1	**WASHER (REPLACES NAS1515H3L)
14B		**10		**AN960C10L	**WASHER
24A		**1		**D3564-13	**WEARSHOE
24B		**1		**D3566-13	**GASKET
20		*1		*D3391-013	*412 MID TUBE
28		**24		**AELS-1032-130	**INSERT (REPLACES NAS1330S3KB116)
30		*1		*D3391-015	*412 AFT TUBE
25A		**1		**D3537-1	**WEARPAD
25B		**1		**D3553-1	**GASKET
26A		**1		**D3537-7	**WEARPAD
26B		**1		**D3553-3	**GASKET
31		**1		**D2646	**AFT CAP
32		**14		**AELS-1032-130	**INSERT
36		**12		**AELS-1032-225	**INSERT (REPLACES NAS1330S3KB366)
37A		**6		**AN3C4A	**BOLT
37B		**4		**AN3C5A	**BOLT
38A		**2		**D3672-1	**WASHER (REPLACES NAS1515H3L)
38B		**10		**AN960C10L	**WASHER
39		**4		**ALS4-428-165	**INSERT (REPLACES NAS1330S4KB151)

(CONTINUED ON PAGE 17)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

(CONTINUED FROM PAGE 16)

Item	Qty -011	Qty -041	Qty -015	Part Number	Description
40	1			D2571	SADDLE, FWD OUTSIDE
41	1			D2572	SADDLE, FWD INSIDE
42	1			D2573	SADDLE, AFT OUTSIDE
43	1			D2574	SADDLE, AFT INSIDE
44	2			D2876	SADDLE SPACER
45	2			D2877	SADDLE SPACER
46	16			D3403-1	BUSHING
47A	4			D2747	SET SCREW
47B	2			D3533	SET SCREW
48	16			AN4C6A	BOLT
49	8			AN4C52A	BOLT
50	8			AN6C12A	BOLT
51A	32			D3672-3	WASHER (REPLACES NAS1515H4L)
51B	32			AN960C416L	WASHER
52A	8			D3672-9	WASHER (REPLACES NAS1515H6L)
52B	8			AN960C616L	WASHER
53	16			D3672-11	WASHER (REPLACES NAS1515H7L)
54	24			MS21043-4	NUT
55	4			AN4C7A	BOLT
60	8			D3403-3	BUSHING
61	1			D3405-041	GHW LUG
62	1			D3405-043	GHW LUG
63	4			AN4C46A	BOLT
64	4			MS21043-4	NUT
70	1			D3407-041	TOW RING
71	2			D3417-3	WASHER
72	1			MS21043-4	NUT
73	1			D3456-1	WASHER
80			1	D2913	DOUBLER
81		***4		***ALS4-428-165	***INSERT (REPLACES NAS1329S4KB140)
82		***4		***AELS-1032-130	***INSERT (REPLACES NAS1330S3KB116)
83			2	MS21043-4	NUT
84			2	MS24693-C272	SCREW
85			1	MS35489-35	GROMMET
86			1	MS35489-93	GROMMET
87		***4		***MS27039C1-09	***SCREW
88		***4		***MS27039C4-08	***SCREW
89A		***4	2	***D3672-1	***WASHER (REPLACES NAS1515H3L)
89B		***4	2	***AN960C10L	***WASHER
90A		***4		***D3672-3	***WASHER (REPLACES NAS1515H4L)
90B		***4		***AN960C416L	***WASHER
91	3			AN3C37A	BOLT
92	2			AN3C40A	BOLT
93	3			AN3C41A	BOLT
94	3			AN3C42A	BOLT
95	3			AN3C43A	BOLT
96	9			AN3C44A	BOLT
98	10			AN3C47A	BOLT
99	66			AN960C10L	WASHER
100	33			MS21043-3	NUT

*DENOTES PART IS INCLUDED WITH D3391-041 ASSEMBLY ABOVE

**DENOTES THAT PART IS INCLUDED ABOVE ASSEMBLY

***DENOTES THAT PART IS INCLUDED WITH D3391-013

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D412-742 REV. D AND
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D412-742 REV. 3.

REF. FAA STC: SR01583SE
REF. CANADIAN STC: SH05-37
REF. EASA STC: EASA.IM.R.S.01126

REFERENCE ONLY

INSTRUCTIONS:

- 1) FOR D412-742-011/-013 SKIDTUBES @ CHANGE 006 AND SUBSEQUENT, UPDATE THE PARTS LIST TO MODIFY THE BOLT USED TO ATTACH THE GHW LUG AS FOLLOWS:

5.1 D412-742-011 (PMA/OEM) Float Skidtube Installation Parts List

32.15 D412-742-011 (PMA/OEM) Float Skidtube Installation Parts List

ITEM	Qty -011	Qty -041	Qty -015	PART NUMBER	DESCRIPTION
	X			D412-742-011	FLOAT SKIDTUBE INSTALLATION
	1	X		D412-742-041	FLOAT SKIDTUBE
	1		X	D412-742-015	ELECTRIC STEP KIT

IS:

63	4			AN4C47A	BOLT
----	---	--	--	---------	------

WAS:

63	4			AN4C46A	BOLT
----	---	--	--	---------	------

5.2 D412-742-013 (APICAL TRI-BAG) Float Skidtube Installation Parts List

32.16 D412-742-013 (APICAL TRI-BAG) Float Skidtube Installation Parts List

ITEM	Qty -013	Qty 043	PART NUMBER	DESCRIPTION
	X		D412-742-013	FLOAT SKIDTUBE INSTALLATION
	1	X	D412-742-043	FLOAT SKIDTUBE

IS:

63	4		AN4C47A	BOLT
----	---	--	---------	------

WAS:

63	4		AN4C46A	BOLT
----	---	--	---------	------

A	NEW ISSUE	AJS	08.12.19
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS	DART AEROSPACE USA, INC PORT HADLOCK, WA	
DRAWN	AJS		
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9441	SHEET 1 OF 1
APPROVED		TITLE	SCALE
DE APPR.		BOLT CHANGE	NTS
DATE	08.12.19	COPYRIGHT © 2008 BY DART AEROSPACE USA, INC THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.	

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries